

Pre-QS Workshop

Kelly Selman, P.E.

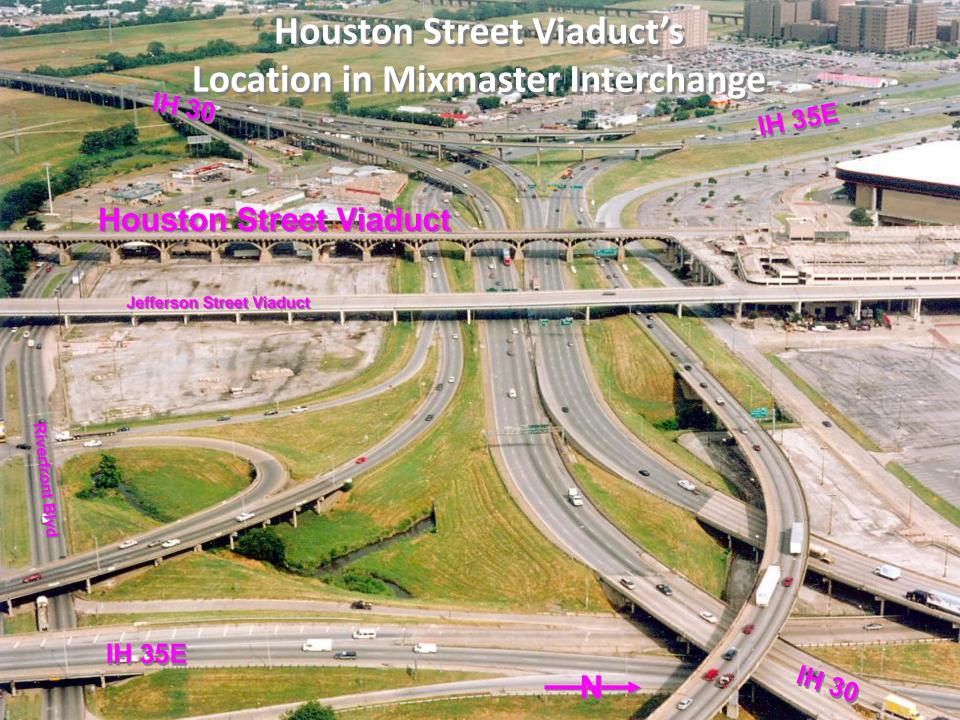
TxDOT, Dallas Deputy District Engineer

January, 9, 2012

Project Location

Loc In t





Purpose and Need





Here are the worst commuting "choke points" in the USA, according to the American Automobile

1950s to carry 90,000 cars daily, loop. Only one lane exits on U.S. 59 cently undergone construction to and merging through the col but it now overflows with 190,000 to the 610 loop, causing delays in ease the problem, a bottleneck still distributor lanes.

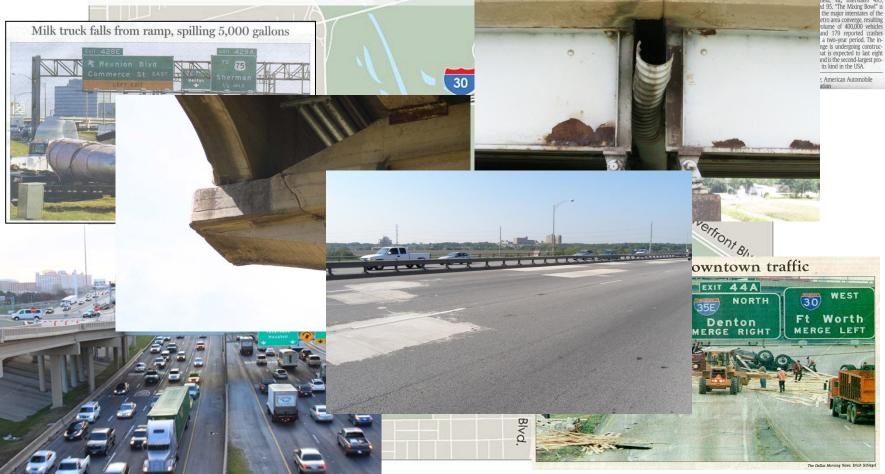
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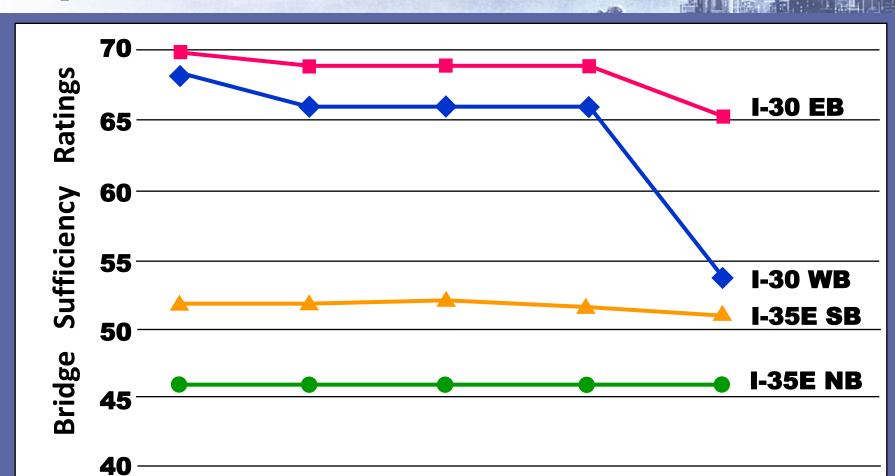
nge is undergoing constru and is the second-largest pro



2004

Purpose and Need

2002



2006

Inspection

2008

Years

2010

HORSESHOE DESIGN-BUILD PROJECT Horseshoe Project Management

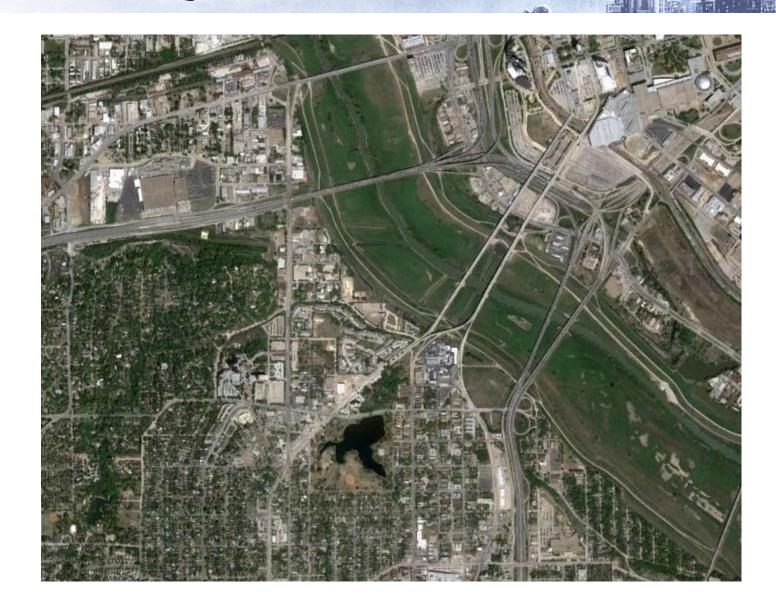


Duane Milligan, P.E.

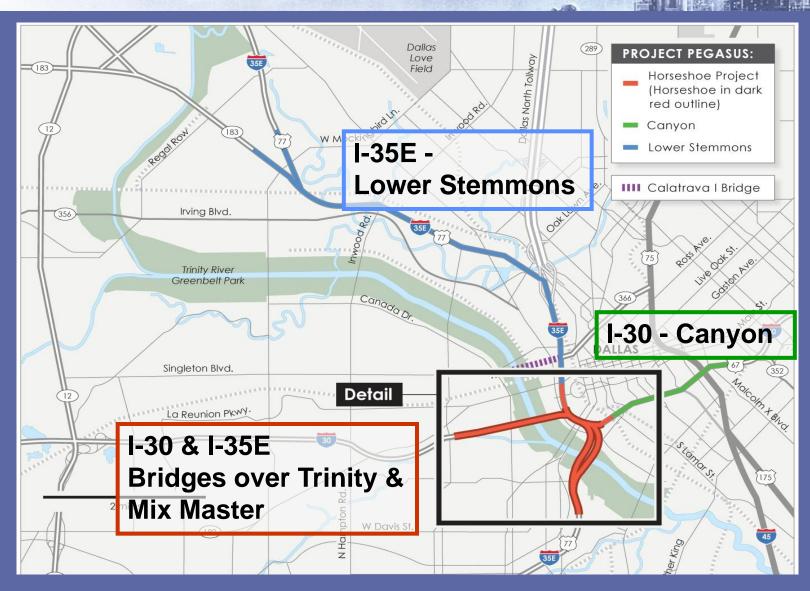
Horseshoe Project Engineer

TxDOT Dallas District

HORSESHOE DESIGN-BUILD PROJECT Proposed Project



Proposed Project



Proposed Project





Cost Estimate		Dedicated Funding Sources	
Construction	\$620	Federal Allocation	\$181.4
Margaret McDermott Bridge	\$80	Prop-12 Major Bridges	\$400.5
		SH 121 RTR	\$72
SUB-TOTAL	\$700	Remainder Prop-12 V1 (MO 112473)	\$10
Design, Testing & Construction Mgmt.	\$56	Remainder Prop-14 (MO 111680)	\$13.3
SUB-TOTAL	\$756	Dallas District's Prop-12 V2	\$53.7
R.O.W. & Utilities	\$62	NCTCOG Prop-12 V2	\$87.1
TOTAL	\$818	TOTAL	\$818

Work Complete / Underway



Commission approved funding

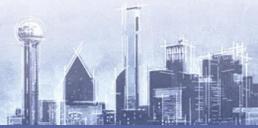
Commission approved "Design-Build"

Margaret McDermott bridge: 50% design complete

I-30: 30% design complete

I-35E: 30% design underway

Next Steps



Draft RFP – March / April 2012

Entire Project: 30% design – April 2012

Margaret McDermott bridge: 90% design -

June April 2012

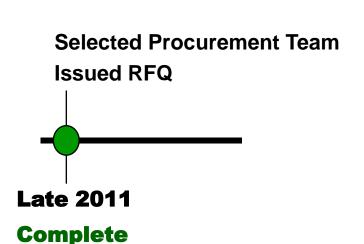
Issue RFP – July 2012

USACE 408 Permit – Fall 2012

Environmental Clearance – December 2012

Next Steps: Preliminary Timeline





Apr. 2012
Short-List Proposers
Issue Draft RFP

July 2012Issue Final RFP

Feb. 2012

Receive

Qualifications

May/June 2012

One-on-One

Meetings

Receive Final Proposal

Environmental Clearance

Start Construction

Fall 2012 — Conditional Contract Award

Jan. 2013
Contract Execution

Late 2016 / Early 2017 — Construction Complete 13

Margaret McDermott Bridges



Margaret McDermott Bridges on the I-30 EB and WB frontage roads

Designed and engineered to 100% by Santiago Calatrava LLC

Under contract with the City of Dallas

Built by the Design-Build Contractor

Margaret McDermott Bridge Design



Charlie Quade, P.E. Huitt – Zollars Inc.



I-30 Frontage Road Bridges



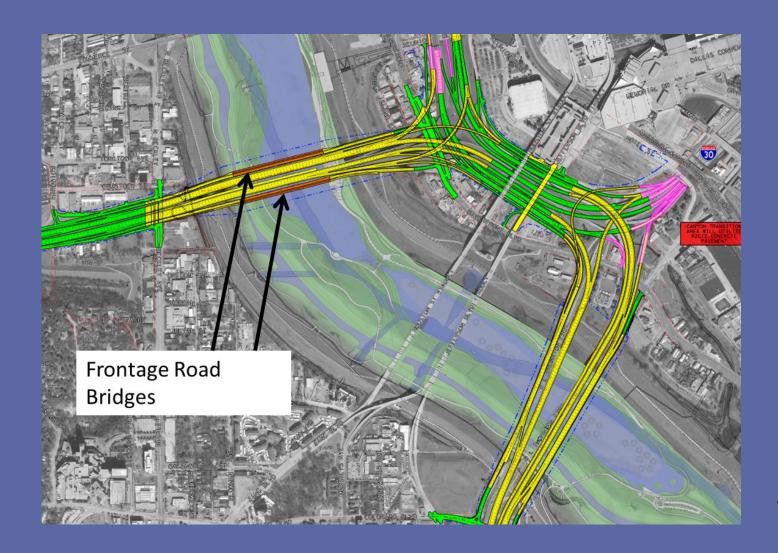
This presentation provides a summary of the "Signature" aspect of the bridge and includes reference projects to indicate the level of workmanship and quality required for the Frontage Road Bridges

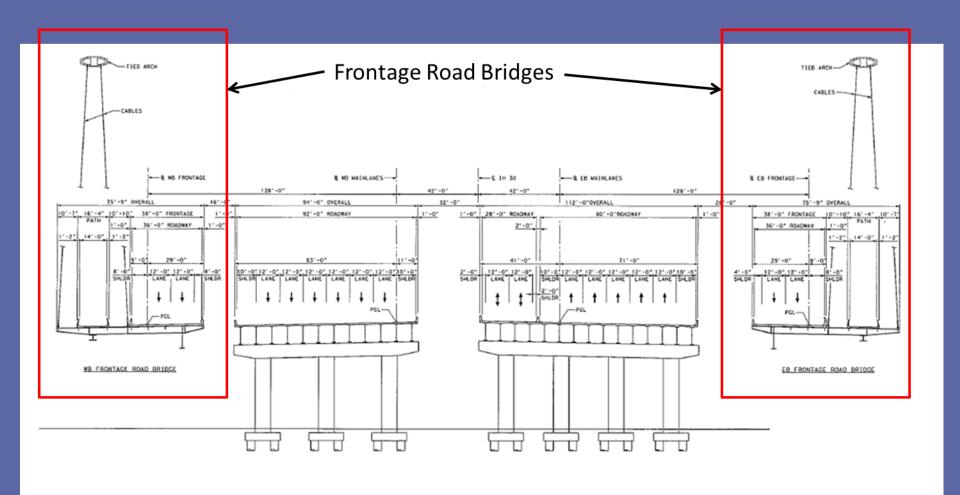
HORSESHOE DESIGN-BUILD PROJECT I-30 Frontage Road Bridges



Santiago Calatrava, LLC Company Profile

- Established 1981
- Principal Santiago Calatrava, Architect and Engineer
- Offices: Zurich, New York, Valencia
- 100 employees worldwide
- Worldwide experience in many forms of construction
- Excellence in bridge design
- Proven experience in delivering large scale projects
- Specific experience in Dallas

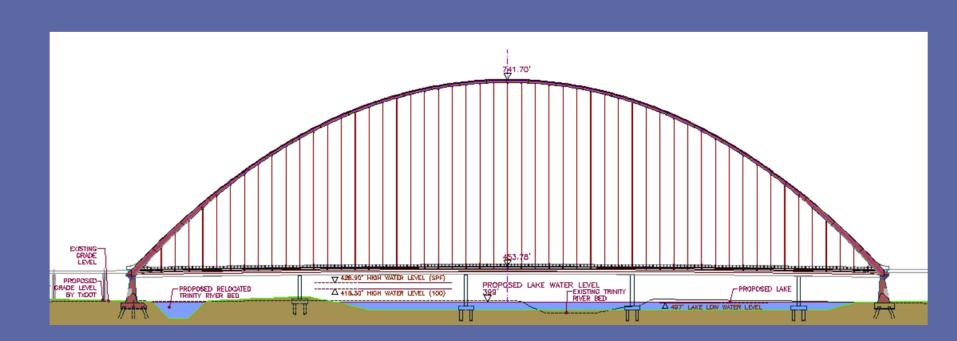




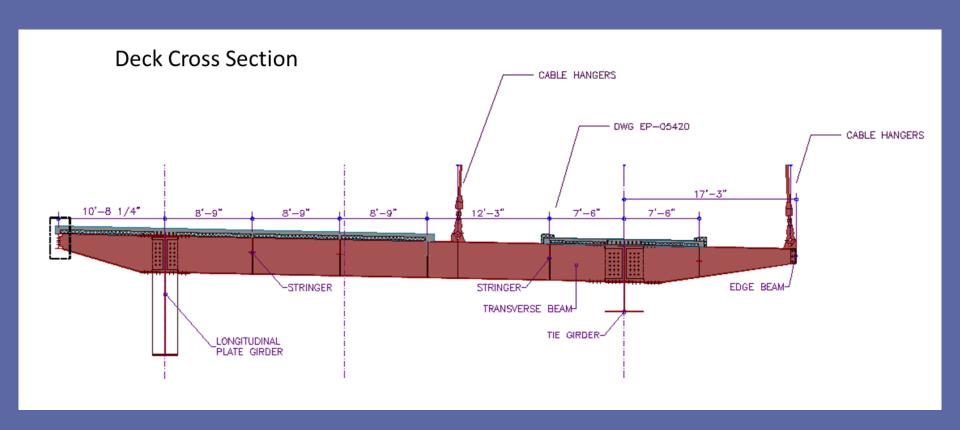
I-30 Frontage Road Bridges



Bridge Elevation



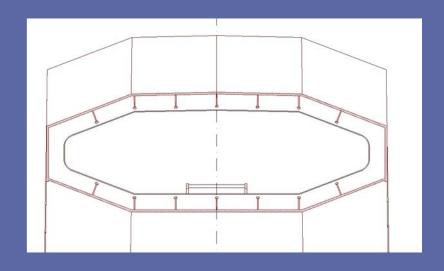




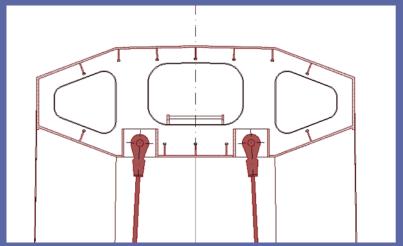
I-30 Frontage Road Bridges



Arch Cross Section



Between Cables



At Cable Anchorage

I-30 Frontage Road Bridges

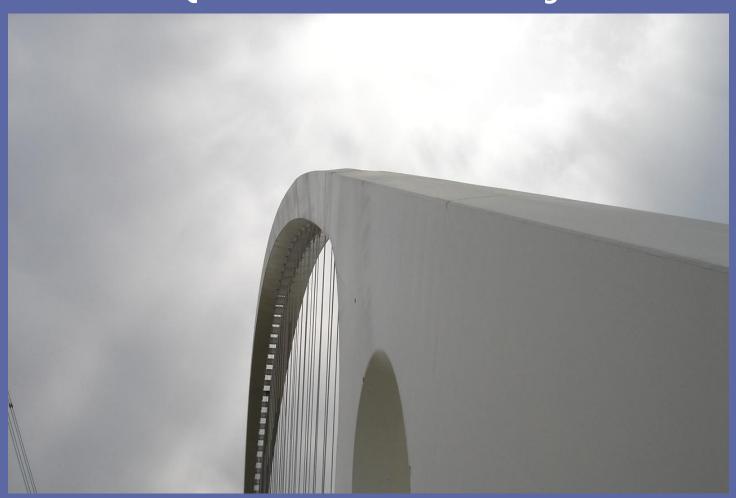
Possible Arch Construction















Reference Projects

Reggio Emilia - Italy



Reference Projects

Reggio Emilia - Italy



Reference Projects

Light Rail Train Bridge - Jerusalem



Reference Projects

Light Rail Train Bridge - Jerusalem



Reference Projects

Margaret Hunt Hill Bridge - Dallas



Reference Projects

Margaret Hunt Hill Bridge - Dallas



Reference Projects

Samuel Beckett Bridge - Dublin



Reference Projects

Samuel Beckett Bridge - Dublin



Reference Projects

Bridges over the Hoofdvaart – The Netherlands



Reference Projects

Bridges over the Hoofdvaart – The Netherlands



HORSESHOE DESIGN-BUILD PROJECT Horseshoe Project Management



Ceason Clemens, P.E.

Horseshoe Deputy Project Engineer

TxDOT Dallas District

Project Challenges



Maintaining traffic under construction

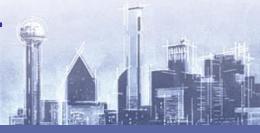
Construction of Margaret McDermott bridge

Reconstruction of 2 major freeway interchanges

Crossing of Trinity River Levees

Accommodating future Trinity Lakes Project

QS Evaluation



Project Qualifications and Experience (65%)

Statement of Technical Approach (35%)

QS Evaluation



Project Qualifications and Experience (65%)

- Experience with developing, designing and constructing comparable projects (20 points)
- Experience of the management team and Key Personnel for the project (16 points)
- Success of the Proposer and individual team members,
 management team and key personnel in working together
 on comparable projects and responsibilities (8 points)
- Stability, strength and likelihood of success of the proposed management structure and team (8 points)
- Experience with performing capital maintenance on comparable projects (8 points)
- Responsiveness toward the DBE involvement, objectives and goals (5 points)

QS Evaluation



Statement of Technical Approach (35%)

- Demonstrate a full understanding of the Project's scope and complexity (20 points)
- Demonstrate a complete understanding of Project risks and potential solutions that may arise during all Project phases, including design, construction, and capital maintenance (10 points)
- The general approach to public involvement recognizing unique characteristics of this Project and its impacts on the community (5 points)

Procurement Schedule



February 22, 2012

March 30, 2012

March 30, 2012

April, 2012

April, 2012

May & June, 2012

June 30, 2012

July, 2012

September, 2012

October, 2012

Fall, 2012

December, 2012

January 2, 2013

RFQ Issued
Qualification Statements Due
Short-list Announced
Release Draft Request For Proposals
30% Plans Complete

90% Signature Bridge Plans

Industry Review One-on-One Meetings

100% Signature Bridge Plans

Issue Final RFP

Proposals Due

Conditional Award

USACE Permit

Environmental Clearance

Contract Execution

Delivering QS Submittals



Proposers are responsible for ensuring QS submittals are delivered by hand or courier on Wednesday, February 22, 2012 by 3:00 p.m. to:

Attn: Kelly Selman TxDOT, Dallas District 4777 East Highway 80 Mesquite, TX 75150

Any QSs received after the above date and time will be rejected and returned to the sending party unopened.

Responsibilities



Proposers are responsible for monitoring the Project Website for information concerning this procurement.

Proposers are advised that responses to questions posed at this workshop are considered to be on an informational basis and are not binding on TxDOT. The process for official questions and answers remains as given in the RFQ via e-mail to horseshoe @txdot.gov.

TxDOT will post responses to those questions of general application and requests for clarifications which TxDOT deems to be material and not adequately addressed in previously provided documents on the Project Website.

TxDOT will post any addenda to this RFQ on the Project Website.

Horseshoe Project Manager



Mr. Kelly Selman, P.E.

Deputy District Engineer

Texas Department of Transportation

4777 East Hwy 80

Mesquite, TX 75150

Email: horseshae Obsdologov

Questions

